

Claim 36 (thrice amended). A mat comprising a plurality of discontinuous reinforcement fibers, wherein the reinforcement fibers have at least a 9 to 1 machine to cross direction mat strength ratio,

and wherein a basis weight of said mat falls within the range of 68 to 339 gm/square meters, and wherein the reinforcement fibers are selected from the group consisting of [polyacrylonitrile or pitch based] carbon; glass; para-amid; ceramics; metals; high temperature thermoplastics; thermosets; liquid crystal polymer fibers; ultra high molecular weight polyethylene and natural or synthetic spider web.

Claim 37 (thrice amended). A mat comprising a plurality of discontinuous reinforcement fibers having at least a 90% machine direction orientation, and wherein a basis weight of said mat falls within the range of 68 to 339 gm/square meters, and wherein the reinforcement fibers are selected from the group consisting of [polyacrylonitrile or pitch based] carbon; glass; para-amid; ceramics; metals; high-temperature thermoplastics; thermosets; liquid crystal polymer fibers; ultra high molecular weight polyethylene and natural or synthetic spider web.

Claim 40 (thrice amended). A product comprising a plurality of mats, each of said mats comprising a plurality of discontinuous reinforcement fibers having at least a 90% machine direction orientation,

and wherein a basis weight of each of said mats falls within the range of 68 to 339 gm/square meters, and wherein the reinforcement fibers are selected from the group consisting of [polyacrylonitrile or pitch based] carbon; glass; para-amid; ceramics; metals; high-temperature thermoplastics; thermosets; liquid crystal polymer fibers; ultra high molecular weight polyethylene and natural or synthetic spider web.

REMARKS

The applicant has elected carbon fibers (e.g., polyacrylonitrile or pitch